

Fig. 1

Structure of gp100-209 epitope concatamer

Concatamer of Gp100-209 epitope was generated using the following strategy.

Concatamer Primers1. GP100-209 forward

5'

ATTACTGACC AGGTACCTTT CTCCGTG

2. GP linker

5'

TGGTCAGTAA TCACGGAGAA AGGTACCT

3. Start primer (Eco RV) 30 mer 46% GC

5'

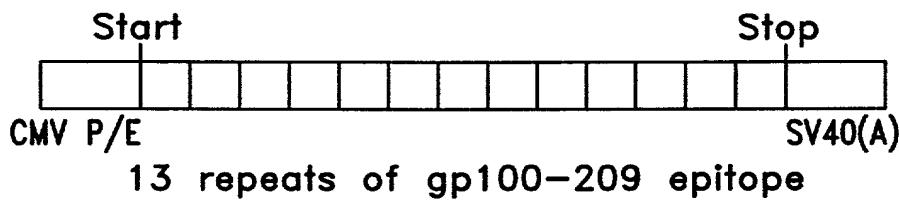
GGCC GATATC ATGATTACTG ACCAGGTACC

4. Stop Primer (Spe) 30 mer 53% GC

5'

GGCC ACTAGT GATCACGGAG AAAGGTACCT

Structure of gp100-209 epitope concatamer expression cassette



Gp100-209 epitope sequence

5' ATTACTGACCAGGTACCTTTCTCCGTG 3'
 3' TAATGACTGGTCCATGGAAAGAGGCAC 5'

Fig. 2A

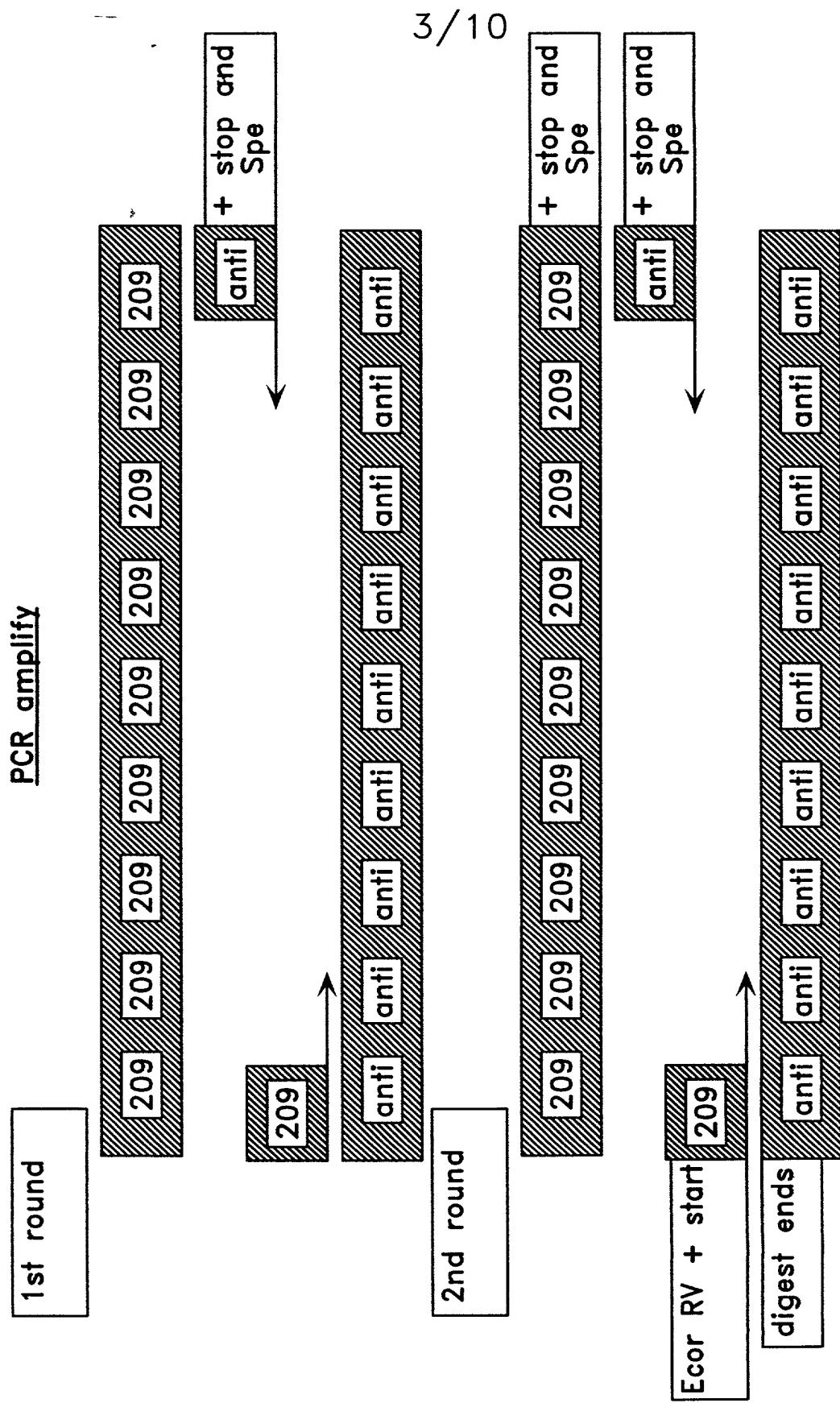
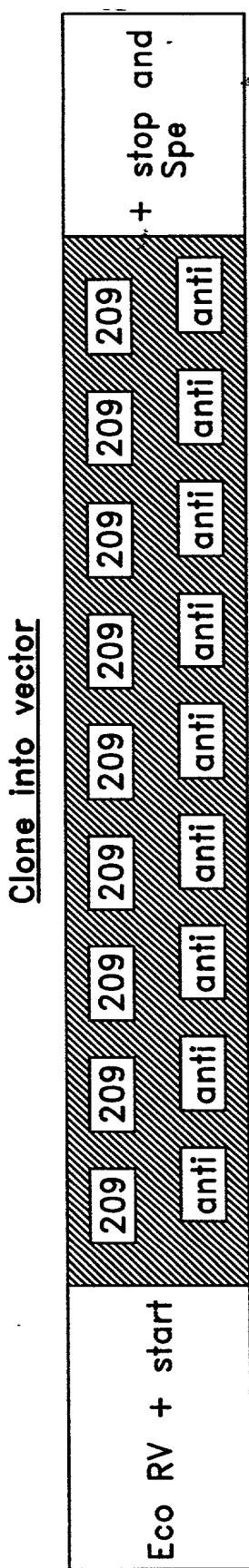


Fig. 2B



Run on agarose gel to select size:

10 copies of epitope = 270
 20 copies of epitope = 540
 50 copies of epitope = 1350
 100 copies of epitope = 2700

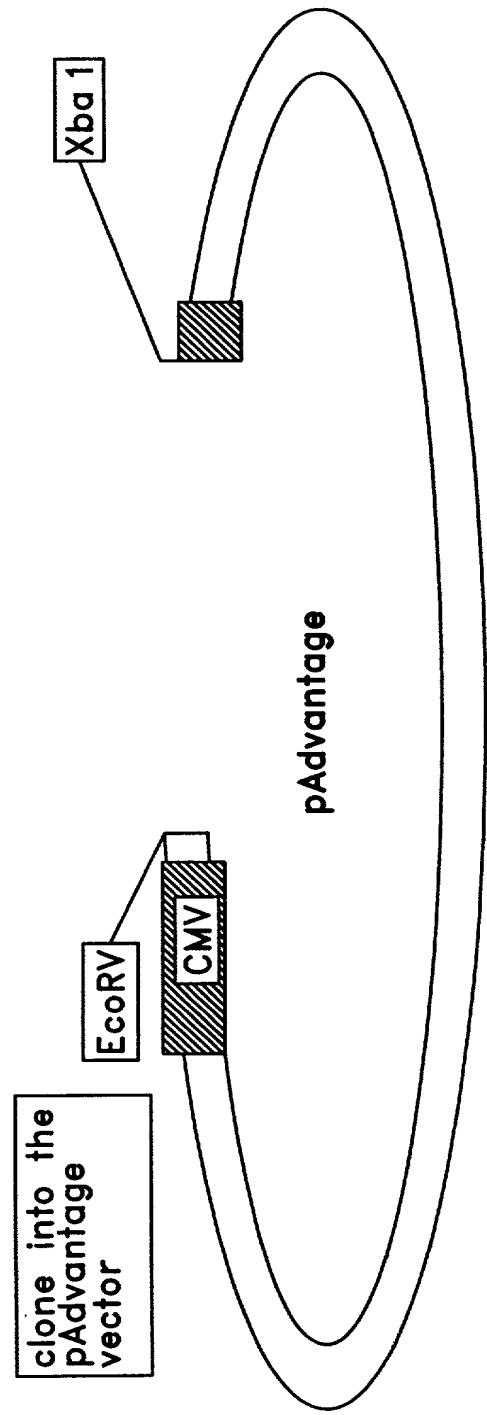


Fig. 2C

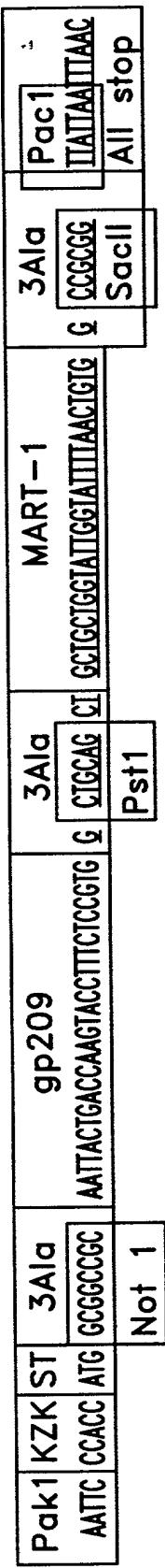
gp209 epitope construct

Fig. 3A

 α -globin stability element

Pac1
 TAA
 CCTGGACCTGGAGCCGTCTCTGGGGCTCCCAACGGGGCTCCCTGGCTGGCTGGTGAATAAAGCTGAGTGGGGCT

Fig. 3B

Fig. 4

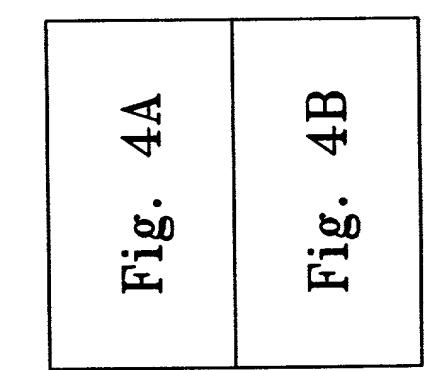


Fig. 4A

7/10

Fig. 4B

T cell mediated lysis of gp100-209 epitope presenting cells

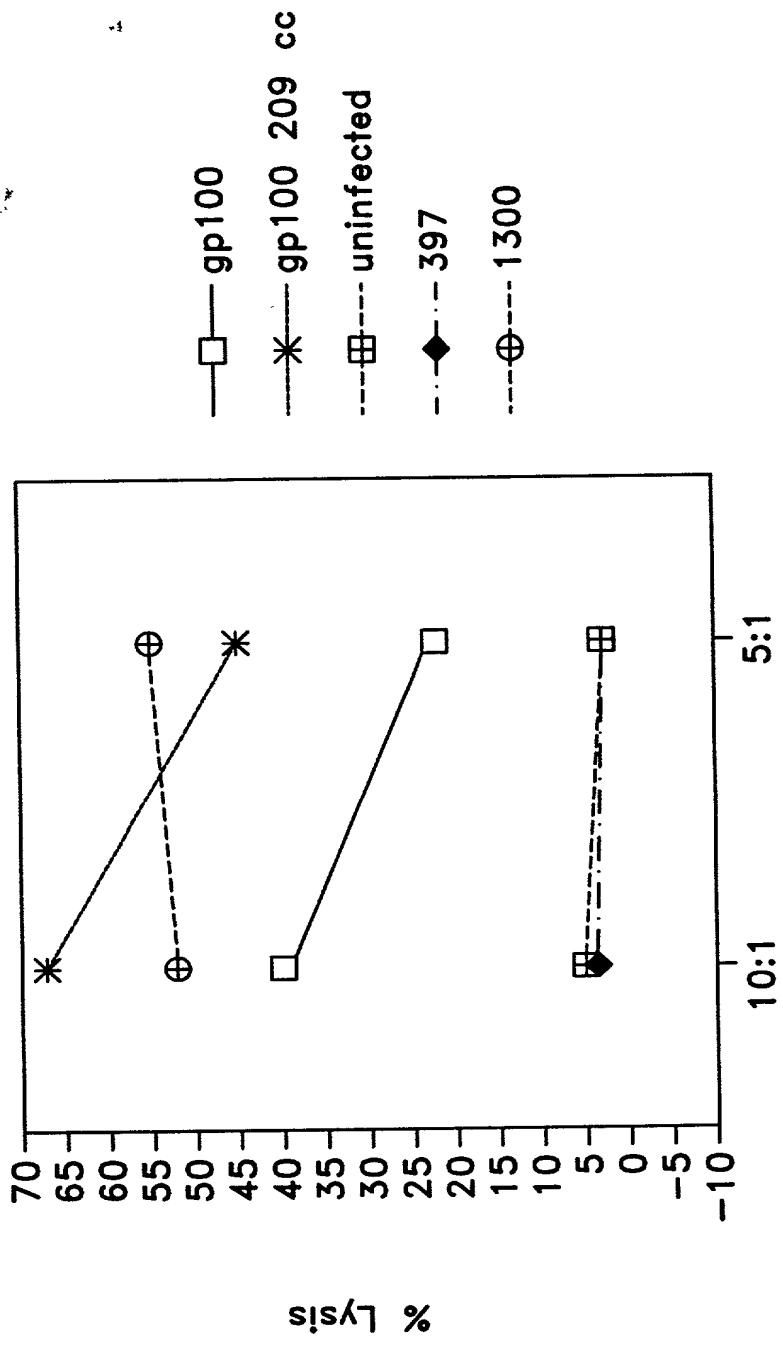


Fig. 5A

10/10

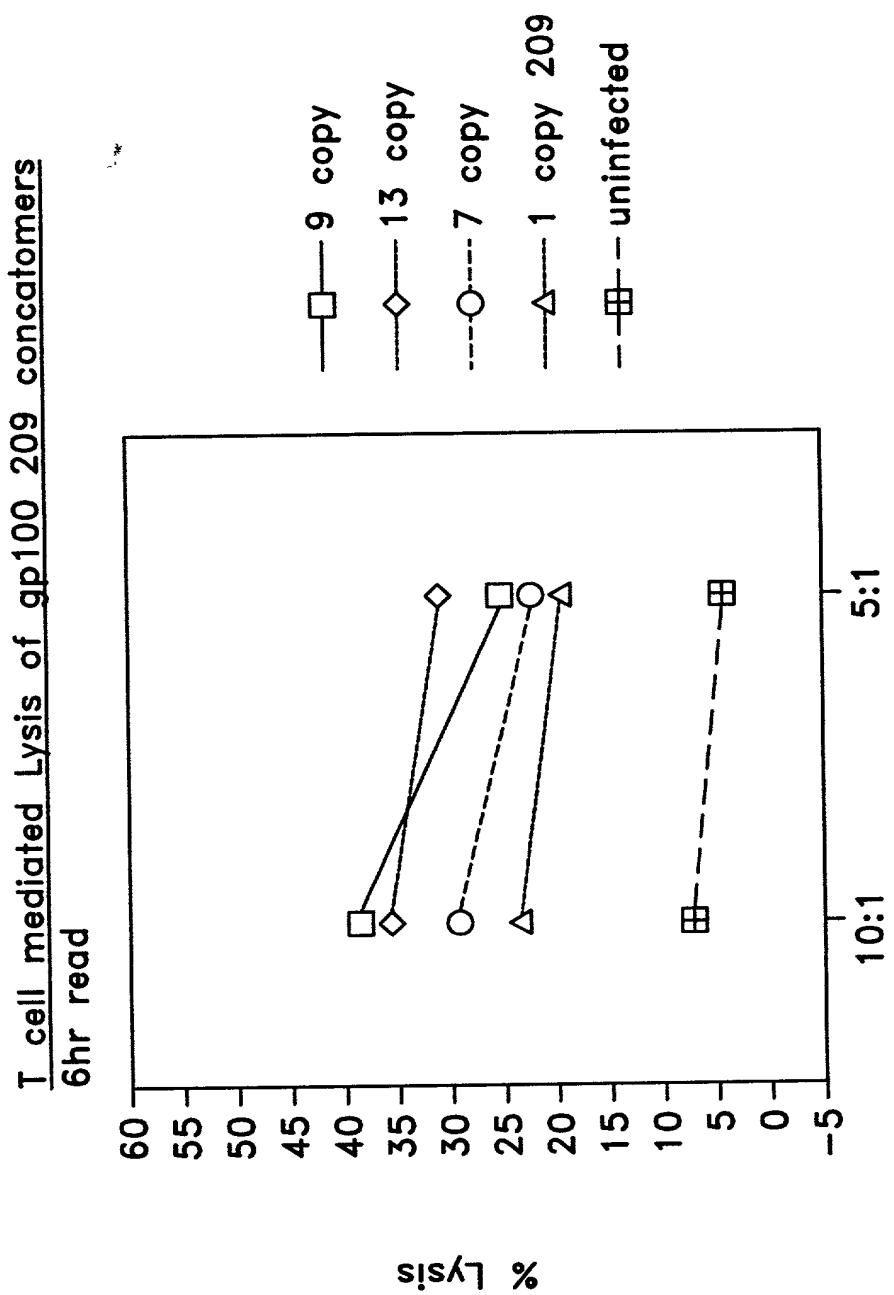


Fig. 5B